

Solving Linear Systems by Elimination

Date: _____

Method of Elimination - is adding or subtracting the two equations to eliminate one of the variables.

EX: Solve by “elimination”.

$$4x + y = 13$$

$$4x - y = 11$$

EX: $2a - 3b = 13$
 $5a - b = 13$

EX: $\frac{1}{2}x - y = -3$

$$x - \frac{2}{3}y = -2$$

EX: $0.3x - 0.5y = 1.2$
 $0.7x - 0.2y = -0.1$

- Elimination Steps:**
- A.** Line up the x, y, =, and number and label equation 1 and 2
 - B.** Get the same x or y coefficient by multiplying.
 - C.** Add or subtract to eliminate one of the variables.
 - D.** Solve for the remaining variables.
 - E.** Substitute this solution back into 1 or 2 to find the other variable.
 - F.** Write the solution as an ordered pair.